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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/663,591	09/16/2003	Wen Zhao	555255012545	3286
43563 7590 02/26/2007 MOFFAT & CO 427 LAURIER AVEUE W., SUITE 1200			EXAMINER	
			REGO, DOMINIC E	
OTTAWA, ON KIR 7Y2 CANADA		•	ART UNIT	PAPER NUMBER
			2618	
				
SHORTENED STATUTOR	Y PERIOD OF RESPONSE	MAIL DATE	DELIVERY MODE	
3 MONTHS		02/26/2007	PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

		Application No.	Applicant(s)			
		10/663,591	ZHAO ET AL.			
Office Action Summary		Examiner	Art Unit			
		Dominic E. Rego	2618			
Period fo	The MAILING DATE of this communication app or Reply	ears on the cover sheet with the c	orrespondence address			
	ORTENED STATUTORY PERIOD FOR REPLY	/ IS SET TO EXPIRE 2 MONTH/	S) OR THIRTY (30) DAVS			
WHIC - Exte after - If NC - Failu Any	CHEVER IS LONGER, FROM THE MAILING DATE of the may be available under the provisions of 37 CFR 1.13 SIX (6) MONTHS from the mailing date of this communication. Depriod for reply is specified above, the maximum statutory period were to reply within the set or extended period for reply will, by statute, reply received by the Office later than three months after the mailing ed patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tin will apply and will expire SIX (6) MONTHS from a cause the application to become ABANDONE	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).			
Status						
1)⊠	Responsive to communication(s) filed on 23 No.	ovember 2006.	•			
2a)⊠	This action is FINAL . 2b) ☐ This action is non-final.					
3)						
	closed in accordance with the practice under E	x parte Quayle, 1935 C.D. 11, 4	53 O.G. 213.			
Disposit	ion of Claims		·			
4)⊠	Claim(s) 1-17 is/are pending in the application.					
·	4a) Of the above claim(s) is/are withdraw	vn from consideration.				
5)	Claim(s) is/are allowed.	•				
6)⊠	Claim(s) 1-17 is/are rejected.	,				
7)	Claim(s) is/are objected to.					
8)	Claim(s) are subject to restriction and/o	r election requirement.	•			
Applicat	ion Papers	•				
· · ·	The specification is objected to by the Examine	r.				
•	The drawing(s) filed on is/are: a) acco		Examiner.			
7—	Applicant may not request that any objection to the	· · · · · · · · · · · · · · · · · · ·				
	Replacement drawing sheet(s) including the correct					
11)	The oath or declaration is objected to by the Ex	aminer. Note the attached Office	Action or form PTO-152.			
Priority (under 35 U.S.C. § 119					
-	Acknowledgment is made of a claim for foreign	priority under 35 U.S.C. § 119(a)-(d) or (f).			
· ·	☐ All b)☐ Some * c)☐ None of:	priority juriation of the control 3 in rotal	, (=, =)			
	1. Certified copies of the priority documents	s have been received.				
	2. Certified copies of the priority documents		ion No			
	3. Copies of the certified copies of the prior	rity documents have been receive	ed in this National Stage			
	application from the International Bureau	ı (PCT Rule 17.2(a)).	·			
* See the attached detailed Office action for a list of the certified copies not received.						
	•					
Attachmen	ot(s)					
	ce of References Cited (PTO-892)	4) Interview Summary				
	ce of Draftsperson's Patent Drawing Review (PTO-948) mation Disclosure Statement(s) (PTO/SB/08)	Paper No(s)/Mail D 5) Notice of Informal F				
	er No(s)/Mail Date	6) Other:				

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DETAILED ACTION

DETAILED ACTION

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.
- 2. Claims 1-9 and 11-17 rejected under 35 U.S.C. 102(e) as being anticipated by Koivukangas (EP 1309214 A1).

Regarding claim 1, Koivukangas teaches a method for conducting a radiated performance test on a wireless device (Figure 2, conducting a radiated performance test between mobile station 10 and local diagnostic computer 29) comprising the steps of:

establishing an interface from a test computer to said wireless device (Figure 2, establishing a interface 28 from a test computer (local diagnostic computer) to wireless device 10);

establishing a data connection on said interface between said test computer and said wireless device (Figure 2, establishing a data connection on said interface 28 between test computer (local diagnostic computer) and wireless device 10; see abstract; Paragraph 0038);

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initializing and starting a timer for a predetermined interval on said wireless device (*Paragraphs 0023,0028; abstract*);

starting a test script on said wireless device; removing said interface during said predetermined interval (Abstract: self-test mode of operation with expiration of timer; Paragraph 0028);

running said radiated performance test (self test) after said predetermined interval (Abstract; Paragraphs 0010 and 0023: Koivukangas teaches reaching a predetermined threshold number of dropped calls within some predetermined interval of operating time, mobile station 10 does the self test);

storing a log of said radiated performance test on said wireless device (Paragraphs 0010 and 0034: mobile station does a self-test when malfunctioning and result stores in a memory); and

analyzing test results based on said log (Paragraph 0001: Koivukangas teaches this invention relates generally to radiotelephones and, in particular, to radiotelephones or mobile stations, such as those capable of operation with a cellular network, and that are further capable of executing a self-test and other diagnostic procedures (analyzing) and recording the results).

Regarding claims 2,3,13, and 14, Koivukangas teaches the method, wherein said interface is a data cable (*Paragraph 0038*).

Regarding claim 4, Koivukangas teaches the method, wherein said analysing test results (*Paragraph 0001*) includes:

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re-establishing said interface; re-establishing said data connection between said test computer and said wireless device (Figure 2, establishing a data connection on said interface 28 between test computer (local diagnostic computer) and wireless device 10; see abstract; Paragraph 0038;

retrieving said test log from said wireless device to said test computer (Paragraph 0028); and

performing an analysis of said test log to provide test results (Paragraph 0028).

Regarding claim 5, Koivukangas teaches the method, wherein said analysing test results (*Paragraph 0001*) includes:

performing an analysis of said log on said wireless device to obtain test results (Paragraph 0001: Koivukangas teaches this invention relates generally to radiotelephones and, in particular, to radiotelephones or mobile stations, such as those capable of operation with a cellular network, and that are further capable of executing a self-test and other diagnostic procedures (analyzing) and recording the results); and

displaying said test results on said wireless device (Figure 2, mobile phone 10 has a display 20 for displaying test results; Paragraph 0024).

Regarding claims 6,7,15, and 16, Koivukangas teaches the method, wherein said computer includes a software tool for communications between said wireless device and said computer and wherein said step of establishing said data connection includes said software tool sending a command to said wireless device (*Paragraph 0026*).

Regarding claim 8, Koivukangas teaches the method, wherein said step of

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starting a test script includes said software tool sending a command to said wireless device (*Paragraph 0026: Koivukangas teaches the network control center 33 may include a failure analysis module (FAM) 33A, such as software running on a PC or mainframe computer. The FAM 33A receives as inputs the set or subset of the transmitted PPCs 24A, as well as mobile station self-test results. Also, it is within the scope of the teaching of this invention to relay the output indication of the FAM 33A such as software running on a PC back to the mobile station 10).*

Regarding claim 9, Koivukangas teaches the method, wherein said step of initializing a timer includes said software tool sending a command to said wireless device (*Paragraphs 0023,0026, 0028; abstract*).

Regarding claim 11, Koivukangas teaches the method, wherein said test script pre-exists on said wireless device (Abstract: a mobile station self-test mode of operation same as test script pre-exist on it).

Regarding claim 12, Koivukangas teaches a method for conducting a radiated performance test on a wireless device (Figure 2, conducting a radiated performance test between mobile station 10 and local diagnostic computer 29) comprising the steps of

initializing and starting a timer from said wireless device for a predetermined interval (*Paragraphs 0023,0028; abstract*);

starting a test script from said wireless device (Abstract: self-test mode of operation with expiration of timer; Paragraph 0028);

running said radiated performance test (self-test) after said predetermined interval (Abstract; Paragraph 0023: Koivukangas teaches reaching a predetermined

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threshold number of dropped calls within some predetermined interval of operating time, mobile station 10 does the self test);

storing a log of said radiated performance test on said wireless device

(Paragraphs 0010 and 0034: mobile station does a self-test when malfunctioning and result stores in a memory);

establishing an interface between said wireless device and a test computer (Figure 2, establishing a interface 28 from a test computer (local diagnostic computer) to wireless device 10);

establishing a data connection between said test computer and said wireless device (Figure 2, establishing a data connection on said interface 28 between test computer (local diagnostic computer) and wireless device 10; see abstract; Paragraph 0038);

retrieving said test log from said wireless device to said test computer (Paragraph 0028); and

performing an analysis of said test log to provide test results (Paragraph 0028).

Regarding claim 17, Koivukangas teaches a method for conducting a radiated performance test on a wireless device (Figure 2, conducting a radiated performance test between mobile station 10 and local diagnostic computer 29) comprising the steps of:

initializing and starting a timer from said wireless device for a predetermined interval (*Paragraphs 0023,0028; abstract*);

starting a test script from said wireless device (Abstract: self-test mode of operation with expiration of timer; Paragraph 0028);

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running said radiated performance test after said predetermined interval

(Abstract; Paragraph 0023: Koivukangas teaches reaching a predetermined threshold

number of dropped calls within some predetermined interval of operating time, mobile

station 10 does the self test with expiration of timer);

storing a log of said radiated performance test on said wireless device (Paragraphs 0010 and 0034: mobile station does a self-test when malfunctioning and result stores in a memory);

performing an analysis of said log on said wireless device to obtain test results ((Paragraph 0001: Koivukangas teaches this invention relates generally to radiotelephones and, in particular, to radiotelephones or mobile stations, such as those capable of operation with a cellular network, and that are further capable of executing a self-test and other diagnostic procedures (analyzing) and recording the results); and displaying said test results on said wireless device (Figure 2, mobile phone 10 has a display 20 for displaying test results; Paragraph 0024).

Claim Rejections - 35 USC § 103

- 3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

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4. Claim 10 is rejected under 35 U.S.C. 103(a) as being unpatentable over Koivukangas (EP 1309214 A1) in view of Ko et al. (US Patent Application Publication #20030100299).

Regarding claim 10, Koivukangas teaches all the claimed elements in claim 1, except for the method, wherein said step of starting a test script further includes loading a test script from said computer to said wireless device.

However, in related art, Ko teaches the method, wherein said step of starting a test script further includes loading a test script from said computer to said wireless device (Paragraph 0009).

Therefore, it would have been obvious to one of ordinary skill in the art at the time of the invention was made to use the teaching of the method, wherein said step of starting a test script further includes loading a test script from said computer to said wireless device, as taught by Ko, in the Koivukangas device in order to fix the network problem.

Response to Arguments

Applicant's arguments filed 11/23/2006 have been fully considered but they are not persuasive. Regarding claims 1,12, and 17, applicants argue that Koivukangas does not teach self-test is performed after a predetermined interval. The examiner disagrees. Paragraph 0010, Koivukangas teaches The method has steps of: (A) during the operation of the mobile station, determining and Storing a set of performance-related data (PPCs) in the mobile station; and (B) responsive to an occurrence of a triggering event, transmitting the set or a sub-set of the performance-related data to

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a computer for analysis. The performance-related data can be stored in counters and registers, or in memory locations that are managed so as to function as counters and registers. By example, the performance-related data can include a count of dropped calls, and/or an indication of a result of a mobile station self-test mode of operation. The triggering event can be a receipt by the mobile station of a message to transmit the set or sub-set of the performance-related data, or a receipt by the mobile station of an input from a user of the mobile station, or an expiration of a timer same as after a predetermine time. Also paragraph 0023, Koivukangas teaches the PPCs 24A provide information regarding the wireless network quality, as well as information regarding the operation of the mobile station 10. In accordance with a further aspect of the invention, the set of PPCs 24A, or a subset thereof, are transmitted from the mobile station to the network provider system 32, via a base station 30. The PPCs 24A can be transmitted in response to a request received from the network provider system 32 or from some other requestor, or on command from a user of the mobile station 10, or periodically at some predetermined interval of time, or upon an occurrence of some other triggering event (e.g., reaching a predetermined threshold number of dropped calls within some predetermined interval of operating time).

Conclusion

5. **THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

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A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Dominic E. Rego whose telephone number is 571-272-8132. The examiner can normally be reached on Monday-Friday, 8:30 am-5 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Nay Maung can be reached on 571-272-7882. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a

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USPTO Customer Service Representative or access to the automated information

system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Dominic E. Rego

QUOCHIEN B. VILONG

PRIMARY EXAMINER